FUDAG

PRODUCT BROCHURE

www.cellcultureflasks.com



Медстандарт

FOCUS ON HIGH-END BIOLOGICAL CONSUMABLES
CONTRIBUTE TO THE DEVELOPMENT OF GLOBAL LIFE SCIENCES



COMPANY PROFILE

Luoyang Fudau Biotech Co.,Ltd. is a high-tech enterprise integrating R&D, production and sales of high-end industrialized biological consumables, laboratory consumables, testing consumables and medical devices. The company has 3000㎡ Class-C,and 6000㎡ Class-D clean workshop.

From the very beginning, Fudau set out to be an outstanding manufacturer to provide quality cell culture consumables equal to international famous brand. Not only from the aspects of workshop level, production equipment, mold design, raw material selection but also from quality system, after-sales services, etc., for years we have been dedicating to strong production support to global life science research.

Based on ISO13485 quality management system, advanced production equipment and fully automated production lines, Fudau is committed to becoming an international high-end biological consumables manufacturer with strong brand strength and excellent product quality while realizing the scale and template of biological consumables.

DEVELOPMENT HISTORY

2022

Set up the second Class C purification workshop (1500㎡)





2021

The culture consumables of Fudau brand into market
ISO13485 CE
ISO9001 approved.

2019

Set up the first Class C purification workshop (1500㎡)



2017

富道细胞® FUDAO

Set up the second Class D purification workshop(4000㎡)



2014

Established Luoyang Fudau Biotech Co.,Ltd.
Focus on R&D of high-end plastic biological consumables.

2011

XinFuDa® 鑫富达医药包装

Established the new factory in Shijiazhuang city, focus on one-step medical functional packaging.



2006

Established the first Class D purification workshop(2000㎡)

2000

富达塑业® FUDA PLASTIC

Established the first company ,FUDA PLASTIC.

QUALITY ASSURANCE



Raw Material Guarantee:

The raw material of cell culture products meet USP VI standard.

Sterilization:

Gama irradiation (25kgy),ensure the sterility.

Equipment guarantee:

Equipments imported from Germany and Japan.

Safety Guarantee:

Products approved by ISO10993 ,USP87,US Pharmacopeia tests by SGS.

Automation:

Highly automated production line, to ensure pyrogen/DNase/RNase free.

Quality Inspection:

Strict quality control to ensure leading level in international market.

Environmental protection:

Class-C workshop meets ISO13485/9001 system.

Product Delivery:

7500㎡ workshop to ensure stable supply of goods, short lead time.

CERTIFICATIONS



ISO9001:2015



CE



ISO13485



10,000-level Purification Workshop Test Report



Test for Pyrogenicity



Undue Toxicity Test



Test for Pyrogenicity



Test for Skin Sensitization



Test for Pyrogenicity



Haemolysis Test



Leaching Test



Leaching Test



Absorbance Test



Absorbance Test



Leaching Test

EXPERIMENT

Taking T25 cell culture flask as an example, 2 foreign brand products of the same type were selected for parallel cell culture experiments. The initial inoculation amount was 0.5 x 10^6 cells/flask, and the cells were counted after 72 hours of culturing,our flask is on the same level as the top brands.

Figure A Cultured HEK293 cells

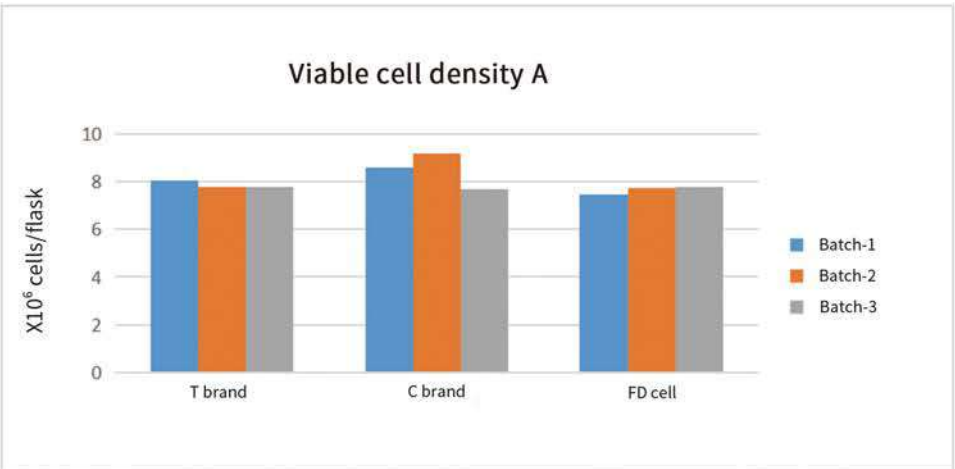
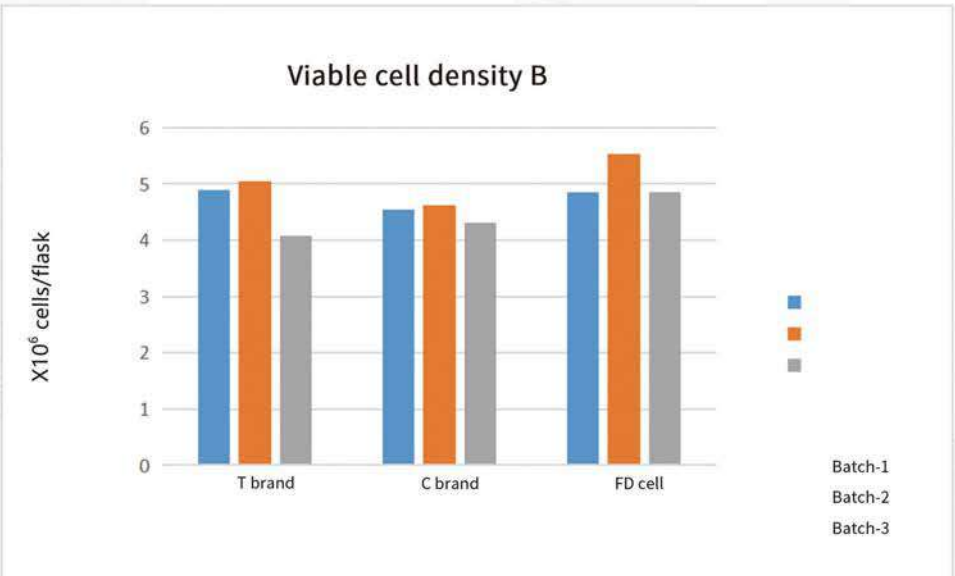


Figure B Cultured L929 cells



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Multi-layers cell factory is the adherent cells' ideal choice for industrial mass production, laboratory operations,and large-scale cell cultures. Compared with other brands, Fudau cell factory has good performance in culture.

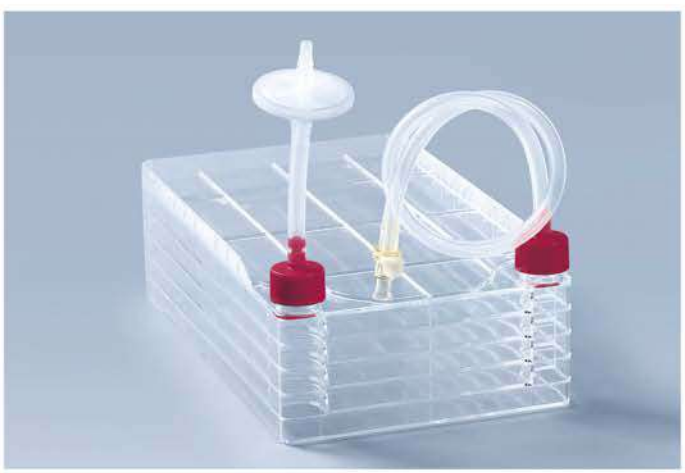
Polystyrene (PS) material meet USP Vl medical grade. Combined with heat treatment process of injection molding,the toughness product is not easy to be damaged while transferring.

Meanwhile,the product has undergone a three-level sealing test before delivery to ensure airtightness.

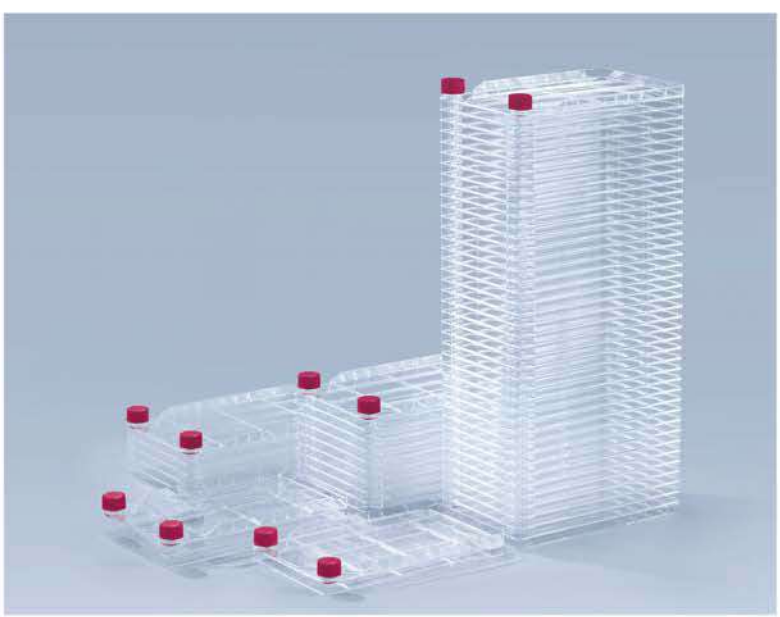
The production processes in Class-C workshop to conplies with ISO13485 by using professional automatic production line.

With the perfect quality management system, each batch of products has been tested to ensure the consistency and stability of product performance between different batches.

MULTI-LAYERS CELL FACTORY









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▶ Double wild-mouth design improves the speed of filling and harvesting liquid, with hardly bubbles, Also conducive for gas exchange and high-density cell culture.

▶ Equipped with quick-fit seal cap (patented product), it can switch between airtight and breathable state in conventional environment(greenhouse) to meet the needs of dissolved oxygen and exhaust in different culture stages of cells and viruses.

▶ The cell-factory is equipped with a complete set of sealed pipeline system,which can be connected with the liquid inlet and receiving system pipeline,and the liquid input and output are carried out by peristaltic pumps or pressure systems.

PRODUCT PARAMETER

TC treated seal cap

Item No.	Layer	Culture area (cm^2)	Length(mm)	Width(mm)	Height(mm)	pcs/pack	pcs/case
C010001	1	635	335	205.5	48	1	8
C010002	2	1270	335	205.5	65	1	8
C010005	5	3175	335	205.5	116	1	6
C010010	10	6350	335	205.5	201	1	4
C010040	40	25400	335	205.5	711	1	2

TC treated vent cap

Item No.	Layer	Culture area (cm^2)	Length(mm)	Width(mm)	Height(mm)	pcs/pack	pcs/case
C011001	1	635	335	205.5	48	1	8
C011002	2	1270	335	205.5	65	1	8
C011005	5	3175	335	205.5	116	1	6
C011010	10	6350	335	205.5	201	1	4
C011040	40	25400	335	205.5	711	1	2

Non-TC treated seal cap

Item No.	Layer	Culture area (cm^2)	Length(mm)	Width(mm)	Height(mm)	pcs/pack	pcs/case
C012001	1	—	335	205.5	48	1	8
C012002	2	—	335	205.5	65	1	8
C012005	5	—	335	205.5	116	1	6
C012010	10	—	335	205.5	201	1	4
C012040	40	—	335	205.5	711	1	2

Non-TC treated Vent cap

Item No.	Layer	Culture area (cm^2)	Length(mm)	Width(mm)	Height(mm)	pcs/pack	pcs/case
C013001	1	—	335	205.5	48	1	8
C013002	2	—	335	205.5	65	1	8
C013005	5	—	335	205.5	116	1	6
C013010	10	—	335	205.5	201	1	4
C013040	40	—	335	205.5	711	1	2

ACCESSORIES OF CELL FACTORY






Item No.	CA0C1003	CA0C2004	CA0C0005	CA0C0006
Name	Seal cap	Vent cap	Liquid transfer cap	Small mouth transfer cap
Material	PP	PP	PP	PP
Irradiation	Yes	Yes	Yes	Yes
Package	1pcs/pack	1pcs/pack	2pcs/pack	2pcs/pack
sterile	Yes	Yes	Yes	Yes






Item No.	CA010580	CA010080	CA010100	CA010160
Name	plug	Big mouth air transfer cap kit	Large mouth liquid transfer kit	Big mouth tee kit
Irradiation	Yes			
Package	2pcs/pack	1set/pack	1set/pack	1set/pack
sterile	Yes	Yes	Yes	Yes





Item No.	CA010060	CA010120	CA010140
Name	Small mouth air transfer cap kit	Small mouth liquid transfer Kit	Small mouth tee kit
Package	1set/pack	1set/pack	1set/pack
sterile	Yes	Yes	Yes

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ROLLER BOTTLE

Roller Bottle is a kind of disposable container which can meet the requirements of large-scale production of cells and tissues in both experimental and industrial production, and is widely used in the culture of animal and plant cells, bacteria, viruses and so on.

01 Material: polystyrene (PS) ,which meet USP VI medical grade.

02 Vacuum plasma surface treatment technology, enhance cell adhesion ability, can also be coated with collagen on the inner surface according to customer requirements.

03 cGMP standard production, each batch passes the performance test, perfect quality system from the source to ensure product quality and consistency.

04 Sterile, no endotoxin, no heat source, no cytotoxicity.

05 Injection, pull and blow molding process, the product bottle mouth is smooth and round, the contact sealing with the cap is better, and the product residue is less.

06 5L cell bottle adopts two-stage design to increase the contact area. The contact area between the roller bottle and the rotating bottle machine adopts the frosted structure to increase the friction coefficient of the roller bottle and reduce the sliding phenomenon.









PRODUCT PARAMETER

■ TC Treated

Item No.	Size	Culture area(ml)	Cap	Sterile	pcs/pack	pcs/case
C023002	2L	1700	Seal cap	Yes	2	40
C022002	2L	850	Seal cap	Yes	2	40
C022005	5L	1750	Seal cap	Yes	1	20

■ Non-TC Treated

Item No.	Size	Culture area(ml)	Cap	Sterile	pcs/pack	pcs/case
C020002	2L	25%	Seal cap	Yes	2	40
C020005	5L	25%	Seal cap	Yes	1	20

CARBOY

The main body of the carboy is made of PC material, which can withstand high temperature processing and low temperature freezing storage, and is an ideal choice for storing sterile liquids, dispensing solutions and culture media.

PRODUCT FEATURES

- The bottle body is produced by ISB one step molding process, which has better appearance and overall sealing.
- A variety of liquid conversion caps and sealing caps can be selected.
- Handle design for easy access.
- Endurance temperature -80~121 degrees.
- Standard size of barrel mouth, which can realize seamless replacement of most liquid storage barrels.
- The carboy body has a molded scale, which is convenient for liquid distribution and use.
- Slim mouth design, the carboy body has high transparency, easy to observe the solution state.
- Autoclavable.







PRODUCT PARAMETER

Item No.	Volume(L)	Height(mm)	Diameter(mm)	Cap type	Inner diameter of external pipeline(mm)	Pcs/Pack
C091010	10	534.23	224	Seal cap	—	1
C096010	10	534.23	224	Big mouth tee cover	13.5	1
C097010	10	534.23	224	small mouth tee cover	7.4	1

- Large mouth tee cover inner piping configuration Liquid inlet: 200mm IN 3/8 OD 5/8 Platinum Vulcanized Silicone Tubing,Liquid end:500mm IN 3/8 OD 5/8
- Small mouth tee cover inner piping configuration Liquid inlet: 200mm IN 3/16 OD 5/16 Platinum Vulcanized Silicone Tubing,Liquid end:500mm IN 3/16 OD 5/16

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HIGH EFFICIENCY ERLENMEYER FLASK

- **Material:** USPVI PETG material or Bisphenol A-free PC material.
- **Specification:** 3L、5L.
- **Applications:** Widely used in microbiology, cell biology and other fields, can be used with large capacity culture shaker, mainly suitable for suspension cell culture.

PRODUCT FEATURES

- Adopts imported injection, pull and blow molding process.
- According to cGMP standard production, no direct contact, product consistency is good.
- The breathable film area of shaker cap is larger than that of similar products, increasing the breathable capacity, suitable for high-density cell culture, the working volume can be filled to 60%-80% of the total volume, and the cell yield is higher.
- The bottle neck designed with a natural arc, and the handle is designed in accordance with the ergonomic design, which is convenient to take the bottle and transfer the liquid.
- Equipped with 0.2μm barrier breathable membrane, optional liquid transfer cap, or customized bottle cap suitable for liquid transfer according to customer process requirements.
- The product has passed sterility testing, endotoxin testing, DNase free, RNase free.

PRODUCT PARAMETER

PC vent cap products

Item No.	Spec	Height(mm)	Neck diameter(mm)	Bottom diameter(mm)	Working Volume(L)	pcs/case
C043003	3L	245	70	163	1.12L-1.96L	12
C043005	5L	281	90	230.26	2L-3.5L	6

PC seal cap products

Item No.	Spec	Height(mm)	Neck diameter(mm)	Bottom diameter(mm)	Working Volume(L)	pcs/case
C044003	3L	245	70	163	1000-2000	12
C044005	5L	281	90	230.26	2000-3500	6

ACCESSORIES OF HIGH EFFICIENCY E-FLASK


Efficient transfer cap


Bi-directional transfer cap


Inverted transfer cap

PRODUCT PARAMETER OF EFFICIENT TRANSFER CAP

Name	Item No.	Min package	pcs/case
Multifunctional transfer cap	CA0C4011	30pcs/pack	—
Transfer cap(Silicone tube, needleless sampler)	CA010370	1set/pack	10
Transfer cap(Silicone tube, needle sampler)	CA010390	1set/pack	10
Transfer cap(Silicone tube, no sampling pipeline)	CA010410	1set/pack	10
Transfer cap(Hot melt tube, needleless sampler)	CA010430	1set/pack	10
Transfer cap(Hot melt tube, needle sampler)	CA010450	1set/pack	10
Transfer cap(Hot melt tube, no sampling pipeline)	CA010470	1set/pack	10

PRODUCT PARAMETER OF BI-DIRECTIONAL TRANSFER CAP

Name	Item No.	Min package	pcs/case
Bi-directional liquid transfer cap	CA0C3010	30pcs/pack	—
Two-way transfer cap(Silicone tube)	CA010490	1pcs/pack	10
Two-way transfer cap(Hot melt tube)	CA010510	1pcs/pack	10

PRODUCT PARAMETER OF INVERTED TRANSFER CAP

Name	Item No.	Min package	pcs/case
Inverted transfer cap	CA0C3010	30pcs/pack	—
Inverted transfer cap(Silicone tube)	CA010530	1pcs/pack	10
Inverted transfer cap(Hot melt tube)	CA010550	1pcs/pack	10

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FLAKE BIOREACTOR CARRIER

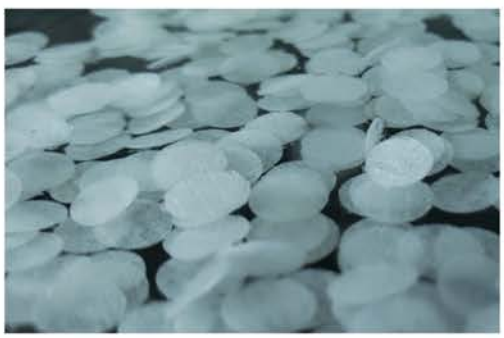
CellDisk flake carrier is a highly hydrophilic flake carrier, which uses vacuum plasma surface treatment technology and chemical grafting modification technology to enrich the flake carrier with more hydrophilic groups such as amino, hydroxyl or carboxyl groups, so that the cell adhesion performance of the carrier is stronger.

PRODUCT FEATURE

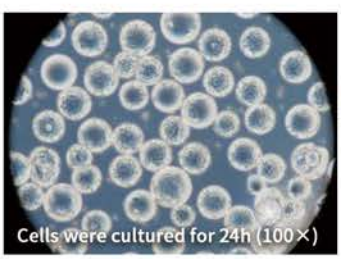
- Double surface hydrophilic modification treatment technology, strong cell adhesion performance.
- Efficiently and simply isolate cultures and cells, harvest products, and perform perfusion or continuous fed-batch culture.
- Autoclavable.
- Can be used in packed bed bioreactors, single-use bioreactors, culture vessels, shake flasks to provide sufficient surface area for cell growth.
- High area/volume ratio, high cell density.
- Multiple tension structures ensure that nutrients in the medium are in full contact with cells, which is conducive to cell growth.

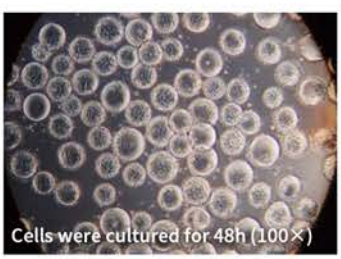
PRODUCT PARAMETER

Item No.	Specification	Package	Bottle/case
C090050	CellDisk	50/bottle	40
C090250	CellDisk	250/bottle	20
C090500	CellDisk	500/bottle	10
C090001	CellDisk	1kg/bottle	4



Sphercial bioreactor carrier









CellDex1 spherical carrier is a spherical microcarrier formed by bonding diethylaminochloroethane on agarose microspheres, which makes cells easy to attach. It is also the most widely used microcarrier for adherent cell suspension culture. , mainly used for the research and development and production of biological products.

PRODUCT FEATURE

- Efficient and simple isolation of cultures and cells, harvesting of products, perfusion or continuous feeding.
- It can be cultured in large-scale stirred bioreactors, single-use bioreactors and shake flasks to provide sufficient surface area for cell growth.
- High area/volume ratio, high cell density.
- It is easy to enlarge the cells. The cells can be digested from the carrier and then inoculated into the new carrier, or the new carrier can be directly added to realize the "ball-to-ball" method to expand the culture.

PRODUCT PARAMETER

Item No.	Specification	Package	Bottle/case
C100050	CellDex1	50/bottle	40
C100250	CellDex1	250/bottle	20
C100500	CellDex1	500/bottle	10
C100001	CellDex1	1kg/bottle	4
C100005	CellDex1	5kg/bottle	1



- According to different surface treatment processes, cell culture flasks can be divided into hydrophilic cell culture flask and hydrophobic cell culture flask
- Under the same environment, the clone formation rate and growth generation of cells cultured in Fudau cell culture flasks have reached the index of similar international products

CELL CULTURE FLASK

01

High quality polystyrene (PS) materials, USP VI medical grade.

02

Plasma surface treatment can maximize adhesion of cells. Culturing for 48h, Vero cell growing condition is good as international famous culture flask.

03

Innovative angled neck design provides good pipet and cell scraper access.

04

The whole production is in the C-class purification workshop. According to ISO13485 quality system management and the use of automatic equipment production, no direct contact with personnel, good product consistency, and small differences between batches.

05

Sterile, DNase-free, RNase-free, endotoxin content<0.1EU/ml.

06

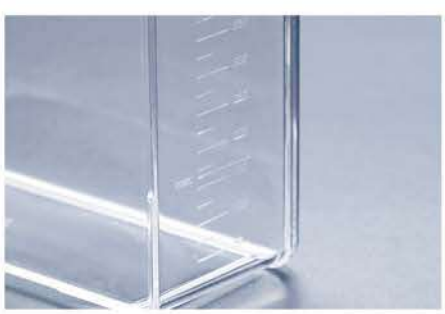
According to different culture requirements, there are vent cap and seal cap optional.

07

Upgrade the flask angle and bottom arc design to easily obtain a complete growth surface and make subsequent operations easier.







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PRODUCT PARAMETER

TC treated flask with seal cap

Item No.	Size	Culture area(cm^2)	Cap type	Pcs/Pack	Pcs/Case
C000025	$25cm^2$	25	Seal cap	10	200
C000075	$75cm^2$	75	Seal cap	5	100
C000175	$175cm^2$	175	Seal cap	5	40
C000225	$225cm^2$	225	Seal cap	5	25

TC treated flask with vent cap

Item No.	Size	Culture area(cm^2)	Cap type	Pcs/Pack	Pcs/Case
C001025	$25cm^2$	25	Vent cap	10	200
C001075	$75cm^2$	75	Vent cap	5	100
C001175	$175cm^2$	175	Vent cap	5	40
C001225	$225cm^2$	225	Vent cap	5	25

Non-TC treated flask with seal cap

Item No.	Size	Culture area(cm^2)	Cap type	Pcs/Pack	Pcs/Case
C002025	$25cm^2$	—	Seal cap	10	200
C002075	$75cm^2$	—	Seal cap	5	100
C002175	$175cm^2$	—	Seal cap	5	40
C002225	$225cm^2$	—	Seal cap	5	25

Non-TC treated flask with vent cap

Item No.	Size	Culture area(cm^2)	Cap type	Pcs/Pack	Pcs/Case
C003025	$25cm^2$	—	Vent cap	10	200
C003075	$75cm^2$	—	Vent cap	5	100
C003175	$175cm^2$	—	Vent cap	5	40
C003225	$225cm^2$	—	Vent cap	5	25

MULTI-WELL CELL CULTURE PLATES



① High quality polystyrene (PS) raw material,conforming to USP VI medical grade,excellent optical and chemical
② properties to ensure product stability and easy microscopic observation.
③ Vacuum plasma surface treatment and uniform well to ensure well consistency.
④ Cellular biocompatible (ISO:10993),sterile and endotoxin free.
⑤ The lid well design ensure the gas exchange,reduce the risks of cross-contamination and evaporation.
Alphanumeric marked wells,easy for identification.

PRODUCT PARAMETER

Item No.	Spec	Single well surface area(cm^2)	Recommended operating volume(ml/well)	Pcs/Case	Treat method	Packing
C060006	6well	9.5	2.2-4.48	100	TC	Box
C060012	12well	3.8	1.2-1.88	100	TC	Box
C060024	24well	1.9	0.55-0.88	100	TC	Box
C060048	48well	0.95	0.19-0.48	100	TC	Box
C060096	96well	0.32	0.1-0.2	100	TC	Box
C060106	6well	9.5	2.2-4.48	100	TC	Seal
C060112	12well	3.8	1.2-1.88	100	TC	Seal
C060124	24well	1.9	0.55-0.88	100	TC	Seal
C060148	48well	0.95	0.19-0.48	100	TC	Seal
C060196	96well	0.32	0.1-0.2	100	TC	Seal

ULTRA-LOW ATTACHMENT MULTIPLE WELL PLATES

- Covalently bound hydrogel layer has hydrophily, charge neutrality and low cellular attachment, minimizes protein absorption and enzyme activation.
- Applied for 3D cell culture, to build a model similar to in vivo environment, effectively support biological experiment. The plates can be widely used in the area of stem cell differentiation, tumorigenesis and drug discovery.

PRODUCT PARAMETER

Item No.	Specification	Type	Pcs/carton	Packing form
C063006	6well	F-type bottom	40	Blister box
C063012	12well	F-type bottom	40	Blister box
C063024	24well	F-type bottom	40	Blister box
C063048	48well	F-type bottom	40	Blister box
C063096	96well	F-type bottom	48	Blister box
C064096	96well	F-type bottom	48	Blister box



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Медстандарт



CELL CULTURE DISH

Cell culture dishes are made from polystyrene (PS) materials and are suitable for laboratory inoculation, marking, weighing, separation and treatment of tissue or cells.

PRODUCT FEATURE

- Uniform thickness, no distortion for excellent observation.
- Easy to grip with gear ring design, reduce contamination risk.
- The ring protrusion on the cover is closely combined with the bottom to facilitate storage and reduce medium volatilization.
- Open petri dish lids with regular protrusions are available.
- Vacuum plasma surface treatment for ideal adhesive performance.
- No pyrogen, endotoxin free, no cytotoxic.
- Sterile by Gamma irradiation, SAL<10-6.

PRODUCT PARAMETER

Item No.	Size(mm)	Min package	Sale package	Treat method	pcs/case
C070035	35	10pcs/pack	50packs/case	TC	500
C070060	60	10pcs/pack	50packs/case	TC	500
C070100	100	10pcs/pack	30packs/case	TC	300
C070150	150	5pcs/pack	20packs/case	TC	100

3.5CM GLASS BOTTOM PETRI DISH

- Coated with non-animal origin collagen-like protein, cells can directly be cultured on the glass bottom.
- Well distributed bulges on cap provide consistent gas exchange
- Designed for use with inverted, fluorescence, laser and phase contrast microscopes.

PRODUCT PARAMETER

Item No	Spec(mm)	Pore diameter(mm)	TC Treatment	Pcs/pack	Pcs/carton
C073035	35mm	20	TC treated	10	500
C073036	35mm	15	TC treated	10	500



CONICAL ERLENMEYER FLASK

Material: USP VI PETG material or Bisphenol A-free PC material.
Specification: 125ml, 250ml, 500ml, 1000ml
Application: It is suitable for cell lines with high oxygen requirements. It is an economical cell culture tool that can be used to cultivate bacteria, fungi, animal and plant cells in suspension culture media, and can also be used for the preparation, mixing and storage of medium.

Product Features

- According to c-GMP standard production, no personal contact, great consistency.
- The bottle cap using high-strength HDPE material and is designed with a PTFE hydrophobic and breathable membrane. After contact with liquid, it will not affect the sealing and ventilation effect of the breathable membrane.
- The scale is clear and accurate, which is convenient for observing the medium capacity
- Aseptic packaging

PRODUCT PARAMETER

PETG flask with vent cap

Item No.	Spec	Height(mm)	Neck diameter(mm)	Bottom diameter(mm)	Working Volume(ml)	Pcs/case
C031125	125ml	115.8	29.4	66	30	24
C031250	250ml	140.8	39	83	60	12
C031500	500ml	178.8	39	101	125	12
C031001	1000ml	216.8	39	127	500	12

PETG flask with seal cap

Item No.	Spec	Height(mm)	Neck diameter(mm)	Bottom diameter(mm)	Working Volume(ml)	Pcs/case
C030125	125ml	115.8	29.4	66	30	24
C030250	250ml	140.8	39	83	60	12
C030500	500ml	178.8	39	101	125	12
C030001	1000ml	216.8	39	127	500	12

PC flask with vent cap

Item No.	Spec	Height(mm)	Neck diameter(mm)	Bottom diameter(mm)	Working Volume(ml)	Pcs/case
C033125	125ml	115.8	29.4	66	30	24
C033250	250ml	140.8	39	83	60	12
C033500	500ml	178.8	39	101	125	12
C033001	1000ml	216.8	39	127	500	12

PC flask with seal cap

Item No.	Spec	Height(mm)	Neck diameter(mm)	Bottom diameter(mm)	Working Volume(ml)	Pcs/case
C032125	125ml	115.8	29.4	66	30	24
C032250	250ml	140.8	39	83	60	12
C032500	500ml	178.8	39	101	125	12
C032001	1000ml	216.8	39	127	500	12

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BAFFLED ERLENMEYER FLASK

Material: PC, comply with USP VI standard.

Specification: 125ml, 250ml, 500ml, 1000ml

Application: Designed with baffles to increase fluid shear stress, reduce viscosity from cell-free DNA and cell debris. Provide effective agitation for more efficient aeration to increased oxygenation and mixing.

PRODUCT FEATURES

- According to c-GMP standard production, no personal contact, great product consistency.
- The bottle cap using high-strength HDPE material and is designed with a PTFE hydrophobic and breathable membrane. After contact with liquid, it will not affect the sealing and ventilation effect of the breathable membrane.
- The scale is clear and accurate, which is convenient for observing the medium capacity.
- Aseptic packaging.

PRODUCT PARAMETER

■ PC FLASK WITH SEAL CAP

Item No.	Spec	Height(mm)	Neck diameter(mm)	Bottom diameter(mm)	Working Volume(ml)	Pcs/pack	Pcs/case
C034125	125ml	115.8	29.4	66	30	1	24
C034250	250ml	140.8	39	83	60	1	12
C034500	500ml	178.8	39	101	125	1	12
C034001	1000ml	216.8	39	127	500	1	12

■ PC FLASK WITH VENT CAP

Item No.	Spec	Height(mm)	Neck diameter(mm)	Bottom diameter(mm)	Working Volume(ml)	Pcs/pack	Pcs/case
C035125	125ml	115.8	29.4	66	30	1	24
C035250	250ml	140.8	39	83	60	1	12
C035500	500ml	178.8	39	101	125	1	12
C035001	1000ml	216.8	39	127	500	1	12



SHAKING TUBE

- The shaker tube has two functions of centrifugation and cell culture at the same time, and is mostly used in conjunction with other cell culture products, mainly for the culture of suspended mammalian cells and microorganisms.

PP MATERIAL VENT CAP PRODUCTS

Item No.	Volume	Packaging	Sterilize	pcs/pack	pcs/case
L031052	50ml	bag	Yes	25	500

CLOSED SAMPLING SYSTEM



- Silicone tube, Luer connector and other connection methods can be configured according to customer requirements.
- Thermoplastic pipe diameter defaults to IN 1/8 OD 1/4.
- A variety of tubing brands are available, and the length and diameter of the tube can also be customized according to
- requirements.
  The bottle body is equipped with a full set of caps and tubing
- Two ports tubing configuration Liquid pipeline: 60cmIN1/8", OD1/4" hot melt tube; Gas pipeline: 0.22μm PTFE air filter; Inner pipeline: Interconnected with liquid pipeline, IN 3/16", OD 5/16" silicone tube.
- Three ports tubing configuration Liquid pipeline 1: 60cmIN1/8", OD1/4" hot melt pipe; Liquid line 2: 60cmIN1/8", OD1/4" hot melt pipe; Gas line: 0.22μmPTFE air filter; Inside line: Interconnected with liquid line 1, IN 1/8", OD 1/4" silicone tube.

BOTTLE WITH TWO PORTS TUBING

Item No.	Volume	Pcs/pack	Pcs/case	Sterile	Material
C036250	250ml	1	6	Irradiation sterilization	PC
C036500	500ml	1	6	Irradiation sterilization	PC
C036001	1000ml	1	6	Irradiation sterilization	PC







BOTTLE WITH THREE PORTS TUBING

Item No.	Volume	Pcs/pack	Pcs/case	Sterile	Material
C037250	250ml	1	6	Irradiation sterilization	PC
C037500	500ml	1	6	Irradiation sterilization	PC
C037001	1000ml	1	6	Irradiation sterilization	PC

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Медстандарт

ONLINE GLUCOSE/LACTATE MONITORING SYSTEM

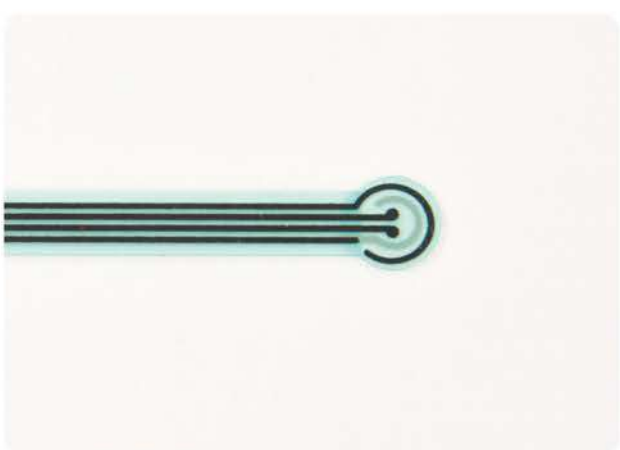
Online Glucose/Lactate Monitoring System is a sensor system based on the principle of enzymatic electrochemistry, which combines a disposable enzyme sensor and a fluid element, and performs data analysis through an analyzer, ensuring high measurement performance and process reliability. For continuous online monitoring of glucose and lactose during cell lines, media and process development projects.

The monitoring system displays the relevant growth behavior and metabolic status of cell culture within a certain time (21 days) range, the data production frequency is 20 seconds/time, observes your cell culture status throughout the day, and through online monitoring of glucose consumption and lactate production to realize process feedback control.

Product features

1. The system is compact in design and takes up little space.
2. Continuous online monitoring of glucose or lactate.
3. Plug and play, easy to operate.
4. Can connect to third-party systems.
5. The whole control process does not require manual sampling.
6. A single parameter can be optimally analyzed or two parameters can be monitored and analyzed simultaneously.





SEROLOGICAL PIPETTE

Application range: It is widely used in cell culture, bacteriology, clinical medicine, scientific research experiments and other fields to accurately measure or transfer a certain volume of liquid.

Product material: USP-Class VI grade polystyrene raw material (PS), GMP100,000 clean workshop production.
Product specifications: 1ml, 2ml, 5ml, 10ml, 25ml, 50ml

PRODUCT FEATURE

- With transparent body and distinct graduations, the pipettes are easy to be observed and read.
- Different color rings on the end of pipette are for easy identification.
- Smooth inner wall of the pipette helps reduce liquid adhesion, so as to make sure sampling accuracy.
- The positive and negative graduations allows convenient handling.
- Negative scale design provides some additional sampling capacity.
- No pyrogen, no endotoxin, no cytotoxicity.
- Sterilized by irradiation, SAL 10^{-6}.
- Packing: independent paper plastic or bulk.





PRODUCT PARAMETER

Item No.	Volume	Package	independent packing	Item No.	Volume	Package	independent packing
L011001	1ml	50packs/bag, 1000pcs/carton	Plastic bag	L010001	1ml	50packs/bag, 1000pcs/carton	paper-plastic bag
L011002	2ml	50packs/bag, 1000pcs/carton	Plastic bag	L010002	2ml	50packs/bag, 1000pcs/carton	paper-plastic bag
L011005	5ml	50packs/bag, 500pcs/carton	Plastic bag	L010005	5ml	50packs/bag, 500pcs/carton	paper-plastic bag
L011010	10ml	50packs/bag, 500pcs/carton	Plastic bag	L010010	10ml	50packs/bag, 500pcs/carton	paper-plastic bag
L011025	25ml	25packs/bag, 250pcs/carton	Plastic bag	L010025	25ml	25packs/bag, 250pcs/carton	paper-plastic bag
L011050	50ml	25packs/bag, 200pcs/carton	Plastic bag	L010050	50ml	20packs/bag, 200pcs/carton	paper-plastic bag
L011100	100ml	20packs/bag, 120pcs/carton	Plastic bag	—			

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CENTRIFUGE TUBE

Product material: Using pure polypropylene raw material (PP) that meets the USP Class VI standard, it is produced in a GMP 100,000-level clean workshop.

Applications: It is widely used in tissue culture, molecular biology, genetics, drug research and development and other fields. It is used for the collection, packaging and centrifugation of various biological samples such as bacteria, cells, proteins, nucleic acids, etc., to meet various biological analysis and requirements.

Product specifications: 10ml, 15ml, 50ml

PRODUCT FEATURE

- The double-threaded design of the tube cover has strong sealing performance and can be operated with one hand.
- Good chemical resistance and temperature resistance, can withstand -80 ~ 121 °C, support high temperature and high pressure sterilization.
- Conical tube bottom with scales to improve accuracy; blank writing area on tube body to help making mark or record.
- The inner wall is smooth to ensure low sample residue.
- The maximum centrifugal force is 18,000xg.
- No pyrogen, no endotoxin, no cytotoxicity;
- Sterilized by irradiation, SAL 10^{-6}.
- Packing: Bulk or Rack.





PRODUCT PARAMETER

Item No.	Volume	Sterile	Packing	Package	Pcs/Case
L031010	10ml	Yes	Bag	25pcs/bag	500
L031015	15ml	Yes	Bag	25pcs/bag	500
L031050	50ml	Yes	Bag	25pcs/bag	500



MICRO CENTRIFUGE TUBE

Product material: Using USP Class VI standard pure polypropylene raw material (PP),GMP100,000 grade clean workshop production

Product spec:1.5ml,2.0ml

PRODUCT FEATURE

- Strengthen the design of pipe cover, improve product sealing, prevent liquid leakage.
- Clear graduation with frost writing area.
- Autoclavable.
- Max RCF =20000xg.
- Dnase free and Rnase free, no Human DNA.
- Non pyrogenic, endotoxin free and non cytotoxic.
- Sterile by Gamma, SAL 10^{-6}.

PRODUCT PARAMETER

Item No.	Volume	Sterilization	Packing	pcs/pack	pcs/case
L030000.5	0.5ml	No	Bulk in bag	500pcs/bag	5000
L031000.5	0.5ml	Yes	Bulk in bag	500pcs/bag	5000
L030001.5	1.5ml	No	Bulk in bag	500pcs/bag	5000
L031001.5	1.5ml	Yes	Bulk in bag	500pcs/bag	5000
L030002	2ml	No	Bulk in bag	500pcs/bag	5000
L031002	2ml	Yes	Bulk in bag	500pcs/bag	5000

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CRYOGENIC VIALS

Cryopreservation tubes are made of high-transparency polypropylene material with excellent chemical resistance, suitable for storage of biological samples such as cells, specimens, solutions, etc. in ultra-low temperature or liquid nitrogen environment.

FEATURES OF CRYOVIALS

- Working temperature: -196°C to 121°C, can withstand high temperature and high pressure.
- Leak-proof screw cap to ensure the safety of the sample inside the tube.
- The maximum fluid volume is 80% of the maximum scale.
- The bottom edge is designed for easy one-handed operation.
- Different color caps, easy to distinguish samples.
- No DNase, RNase, no pyrogen, no endotoxin.

FEATURES OF SBS CRYOVIALS

- Specifications: 0.5ml, lmlx 2.0ml
- Operating temperature: -196 ° C to withstand high temperature and high pressure.
- No DNase, RNase, no pyrogen, no endotoxin.
- Tested for tightness to ensure sample integrity and safety.
- Each vial has a barcode on the body and a laser-etched QR code on the bottom for safe sample identification and tracking.

PRODUCT PARAMETERS

Cryopreserved Products

Item No	Capacity(ml)	category	Pc/bag	Pc/case
D050002	2	Self-supporting, internal screw cap	50	1000
D050004	4	Self-supporting, internal screw cap	50	1000
D051002	2	Free-standing, external screw cap	50	1000
D052005	5	Free-standing, external screw cap	50	1000

Three-in-one cryopreservation tube product

Item No	Capacity(ml)	category	minimal damage	Pc/case
D050005	0.5	external screw cap	96pc/box	960
D050001	1	external screw cap	96pc/box	960
D052002	2	external screw cap	48pc/box	480
D051005	0.5	external screw cap	960pc/bag	960
D051001	1	external screw cap	960pc/bag	960
D053002	2	external screw cap	480pc/bag	480





SINGLE USE VACUUM FILTER CUP

Disposable vacuum filter system is an independent filtering system combined with filter funnel, adapter and collection reservoir. Quick-disconnected pre-filter is very convenient for use. It is an ideal equipment for large volume biological liquid sterilization and removal of impurities.

Material of microfiltration membrane can be PES, CA or PVDF. Different micropore diameters of membranes (0.1μm，0.22μm，0.45μm) can be used for treatment of different biological liquid.

PRODUCT FEATURES

- Disposable, y-ray pre-sterilization.
- Effectiveness of filtration and sterilization (0.22μm) : LRV>7 Brevundimonas diminuta，ATCCC19146，ASTM bacterial challenge experiment.
- Biosafety testing, complies with USP<87>, USP<88>.
- No pyrogen, no nuclease, no surfactant, low extractant.
- Ultra-low protein adsorption＜1.5%(PES).
- High filtering rate, quick and large liquid flow rate.
- GL45 closure system is suitable for regular containers in labs.
- Ergonomic design, graduated funnel and clear liquid receiver, easy operation.
- GF membrane can be used for pre-filtration to gathering more liquid.



PRODUCT PARAMETERS

▸ Nylon Material

Item No	Volume(ml)	membrane diameter(μm)	Sterilization	pcs/pack	pcs/carton
L223025	250	0.22	Irradiation sterilization	1	12
L223050	500	0.22	Irradiation sterilization	1	12
L223100	1000	0.22	Irradiation sterilization	1	12
L243025	250	0.45	Irradiation sterilization	1	12
L243050	500	0.45	Irradiation sterilization	1	12
L243100	1000	0.45	Irradiation sterilization	1	12

▸ PES材质产品

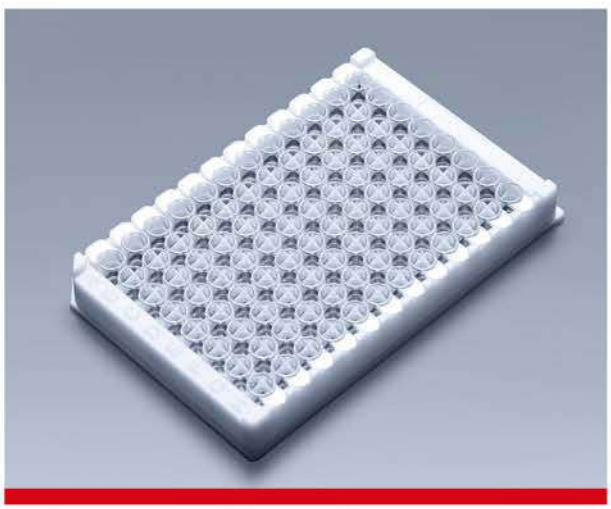
Item No	Volume(ml)	membrane diameter(μm)	Sterilization	pcs/pack	pcs/carton
L211025	250	0.10	Irradiation sterilization	1	12
L211050	500	0.10	Irradiation sterilization	1	12
L211100	1000	0.10	Irradiation sterilization	1	12
L221025	250	0.22	Irradiation sterilization	1	12
L221050	500	0.22	Irradiation sterilization	1	12
L221100	1000	0.22	Irradiation sterilization	1	12
L241025	250	0.45	Irradiation sterilization	1	12
L241050	500	0.45	Irradiation sterilization	1	12
L241100	1000	0.45	Irradiation sterilization	1	12

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Медстандарт

ELISA PLATES

Adopt advanced polymer material surface treatment technology and manufacturing process to ensure high binding, high optical clarity and low background interference of hydrophobic or partially hydrophobic molecules (such as viral antigens and proteins), uniform treatment between wells, suitable for ELISA The safe and reliable carrier in the test can be used for enzyme-linked immunosorbent assay, such as: immunization, identification of transgenic products, medical clinical diagnosis, etc. It can also be used for experiments such as exploration and optimization of initial experimental conditions in cells and culture, and is suitable for most experimental equipment.



- Using medical grade polystyrene (PS) raw material, it has high transparency, good adsorption and low blank value.
- The thickness and size of the wells are uniform, the inter-assay stability is good, and the intra-assay coefficient of variation (CV) difference is low.
- Specially processed to ensure high binding of hydrophobic or partially hydrophobic molecules such as viral antigens and proteins.
- Flat bottom design, divided into two types: removable and non-removable.
- There are letters and numbers beside the holes for easy identification.
- Irradiation sterilization, DNase-free, RNase-free.

PRODUCT PARAMETER

Detachable

Item No.	Type	Binding force	Color	pcs/pack	pcs/case
C050961	Flat bottom	High binding	Transparent	10	200
C050962	Flat bottom	Medium binding	Transparent	10	200
C051961	Flat bottom	High binding	White	10	200
C051962	Flat bottom	Medium binding	White	10	200
C052961	Flat bottom	High binding	Black	10	200
C052962	Flat bottom	Medium binding	Black	10	200

Undetachable

Item No.	Type	Binding force	Color	pcs/pack	pcs/case
C053961	Flat bottom	High binding	Transparent	10	200
C053962	Flat bottom	Medium binding	Transparent	10	200
C054961	Flat bottom	High binding	White	10	200
C054962	Flat bottom	Medium binding	White	10	200
C055961	Flat bottom	High binding	Black	10	200
C055962	Flat bottom	Medium binding	Black	10	200

SQUARE MEDIA BOTTLE



Note: This product does not support high temperature autoclave, only for storage. Can not be used as heating container.

PRODUCT APPLICATIONS

Square media bottles have excellent gas barrier properties for storage and sampling of active pharmaceutical ingredients and bulk intermediates, and are also ideal for the preparation and storage of buffers, serum, culture fluids, or long-term storage of pH-sensitive liquids. The bottle is sterile and shatterproof with ergonomic square design,easier to use.

PRODUCT FEATURES

- Made of polyester (PET, PETG) with polypropylene cap.
- It is produced by injection stretch blow molding process, which has stronger gas barrier ability, high gloss of the bottle body, smooth inner and outer walls,the solution does not hang on the wall.
- Light weight, impact resistance, material can withstand -70 °C low temperature, chemical resistance, good stability.
- High transparency, and the bottle body has a molded scale, which is convenient for visual observation of the solution volume.
- Cobalt 60 sterilization treatment, no pyrogen, no DNase, no RNase.
- The square ergonomic design is easy to grip and saves space.
- Anti-leakage, the lid and the bottle mouth cooperate more closely, and multiple control to ensure no leakage.

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PRODUCT PARAMETER

PET material

Item No.	Volume(ml)	Neck diameter (mm)	Height(mm) (without cap)	Height(mm) (with cap)	pcs/pack	pcs/case
C084125	125	35.4	104	108	24	96
C084250	250	35.4	140	144	56	224
C084500	500	35.4	172.5	176.5	20	120
C084010	1000	35.4	213	217	20	40

PETG material

Item No.	Volume(ml)	Neck diameter (mm)	Height(mm) (without cap)	Height(mm) (with cap)	pcs/pack	pcs/case
C080005	5	16.6	43.7	45.5	100	500
C080001	10	16.6	54	55.4	100	500
C080030	30	18.8	60.3	63	40	280
C080125	125	35.4	104	108	24	96
C080250	250	35.4	140	144	30	60
C080500	500	35.4	172.5	176.5	24	48
C080010	1000	35.4	213	217	12	24







CLOSED SAMPLING SYSTEM



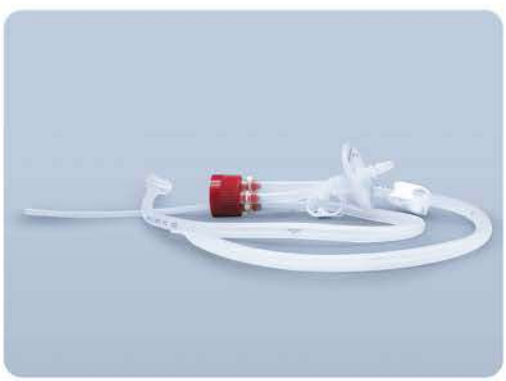
- Silicone tube, Luer connector and other connection methods can be configured according to customer requirements.
- Thermoplastic pipe diameter defaults to IN 1/8 OD 1/4.
- A variety of tubing brands are available, and the length and diameter of the tube can also be customized according to requirements.
- The bottle body is equipped with a full set of caps and tubing system, which is easy to use.

▶ BOTTLE WITH TWO PORTS TUBING

Item No.	Volume	Pcs/pack	Pcs/case	Sterile	Material
C088125	125	1	6	Irradiation sterilization	PETG
C088250	250	1	6	Irradiation sterilization	PETG
C088500	500	1	6	Irradiation sterilization	PETG
C088001	1000	1	6	Irradiation sterilization	PETG







▶ BOTTLE WITH THREE PORTS TUBING

Item No.	Volume	Pcs/pack	Pcs/case	Sterile	Material
C089125	125	1	6	Irradiation sterilization	PETG
C089250	250	1	6	Irradiation sterilization	PETG
C089500	500	1	6	Irradiation sterilization	PETG
C089001	1000	1	6	Irradiation sterilization	PETG

- Two ports tubing configuration Liquid pipeline: 60cmIN1/8", OD1/4" hot melt tube; Gas pipeline: 0.22μm PTFE air filter; Inner pipeline: Interconnected with liquid pipeline, IN 3/16", OD 5/16" silicone tube.
- Three ports tubing configuration Liquid pipeline 1: 60cmIN1/8", OD1/4" hot melt pipe; Liquid line 2: 60cmIN1/8", OD1/4" hot melt pipe; Gas line: 0.22μmPTFE air filter; Inside line: Interconnected with liquid line 1, IN 1/8", OD 1/4" silicone tube.

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Медстандарт

REAGENT BOTTLE



Material: PE, PP

Application: Storage of products in the fields of molecular biology and cell biology,laboratory medicine, etc.

PRODUCT FEATURE

- The bottle body is injected and blown, with high gloss, smooth inner and outer walls, and reagent does not hang on the wall.
- A variety of specifications and colors are available to meet the requirements of different products.
- Professional anti-leakage design, the lid and the bottle mouth are more closely matched, no need for an inner lid, multiple controls to ensure no liquid leakage.
- Passed ISO15378 quality management system certification.

PRODUCT PARAMETER

Item No.	Volume(ml)	Height(mm)	Diameter(mm)	Weight(g)
S001	3	38	12.5	1.7
S009	8	45.7	19.5	4.4
S006	10	48.2	24	6
S002	15	48.5	27.5	6.6
S007	30	59.3	34.3	8
S003	30	58.3	34	10.3
S008	60	82	38.4	11.3
S004	60	80.9	41.3	18.9
S005	120	95.6	50.8	24.2
S011	250	128.3	61.2	27

STORAGE BAG

storage bag adopts multi-layer co-extruded membrane material with good physical strength, chemical compatibility and biocompatibility. Flexible size and pipeline can be customized according to customer requirements, suitable for various processes. To meet the needs of storage and transport of all kinds of liquids in biopharmaceutical process, it can support a variety of circular containers.

RANGE OF APPLICATION

- Buffer and medium sterilization ltration and storage transport.
- Puri cation component collection.
- Sample collection.
- Mix small volume of liquid.
- Temporary storage and transportation of intermediate products.
- Collection of raw liquid.
- Collection of final products.


2D sampling bag series


2D sampling bag series


2.5 D Liquid storage bag

3D MIXING BAG

3D mixing bag is made of multi-layer co-extruded lm with good physical strength, chemical compatibility and biocompatibility. Fast and ef cient mixing of powder and particles. Flexible size and pipeline can be customized according to customer requirements, suitable for various processes. To meet the needs of all kinds of mixing in the biopharmaceutical process, can support a variety of containers.

RANGE OF APPLICATION

- Capacity specification:50-2000L.
- Preparation of buffer and medium .
- Puri cation components of mixing and temporary storage .
- Low PH incubation and virus inactivation .
- Preparation of semi- nished products .
- Mixing of adjuvant.





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DISPOSABLE BIOREACTOR BAGS

WE design and production of standard disposable bioreactor, there are three types:

- the wave disposable bioreactor
- Mechanical stirring bioreactor
- disposable magnetic stirring bioreactor.

Standard specifications can be adapted to Thermo, GE and other brands of disposable consumables, can also be adapted to customer customized consumables.





ADVANTAGES

- Customizable: volume 2L-2000L, connector, pipeline, filter (DO electrode port, PH electrode port, temperature electrode port, air inlet pipe, air outlet pipe, sampling pipe, feeding pipe, harvesting pipe, standby pipe, etc. can be selected).
- Operating temperature: 8 ° C-45 ° C.
- Sterilization method: γ Irradiation (25~40KGy)
- It has good stability, and the bag is composed of five layers of co extruded transparent films of imported membrane materials. It has excellent mechanical strength and is suitable for a long-term cell culture process.
- For one-time use, no cleaning steps are required to avoid the risk of cross contamination between products and improve production efficiency.



Медстандарт

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